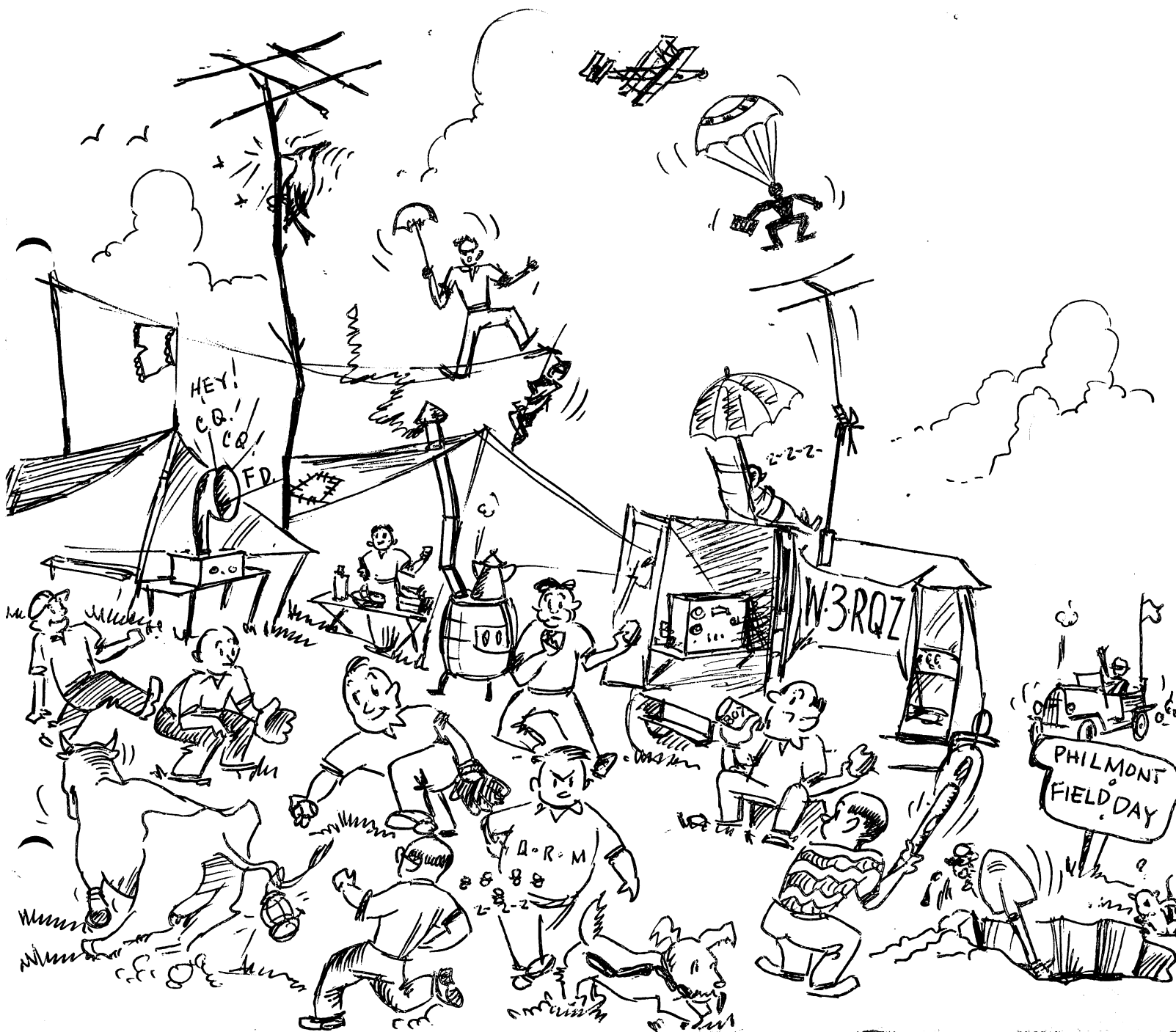




# THE BLURB

PHILMONT MOBILE RADIO CLUB

JUNE  
1958



T N E

# B L U R B

Published Monthly by  
the Phil-Mont Mobile Radio Club

"from the president"

## "AN IMPORTANT SUBJECT FOR CONSIDERATION"

In the near future Phil-Mont members will be presented with a proposal that the club take steps to incorporate. This is an important subject and therefore should be given thorough consideration by each and every member. The suggestion that we incorporate has been made several times in the past, but no action has ever been taken. Each time that it has come up in the past, there has been a great deal of controversy, with the result that we have gone round and round, never settling the question. As your president, for the present time at least, I have no views-pro or con-to express on the matter. My concern, at the moment, is for a better organized and more orderly approach to the question with an ultimate decision based on a thorough consideration of what is best for Phil-Mont. To accomplish this, I plan to form a committee, composed of some of the proponents of "Incorporation" with the assignment to get together, for presentation to the membership, some of the real facts regarding the advantages of incorporation. If there are some significant advantages to being incorporated, and they are properly presented to the membership, I see no reason why we can't settle this important question. Also, in the interest of an orderly and worthwhile discussion, I would like to ask those who feel strongly against incorporation to first organize their reasoning, and then, by all means, present it to the group. Most certainly, we must hear both sides of the story if we are to give the matter thorough consideration. What I am really asking is that those who feel strongly, either for or against, to investigate and confirm what you believe to be so before the meeting, and then with the benefit of some forethought, present it to the membership at the meeting for their consideration in settling the matter. Either it's a good thing for the club, or it isn't. Let's find out which is the case, and settle the "thing" once and for all.

73.

de prexy

VOL 8 June 1958 NO 6

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The "Blurb" is published by and for the members of Phil-Mont to further the interest of Amateur Radio in general, and Mobile Radio in particular. We endeavor to keep news accurate, interesting, and, in a small way, educational. Any deviation from this is unintentional. Copying and quoting is permitted provided credit line is included. Commercial use is not permitted, and subscriptions are gladly exchanged with other Amateur Radio Clubs.

### DEADLINES

Material for the Blurb for W3PXY, and items for the Swap Sheet for W3WUX must be received by the 15th. The Blurb is mailed the last Thursday of the month.

### CLUB OFFICERS FOR 1958

PRES. Charles A. Gilbert W3YJM  
V. PRES. George W. K. King W3PXY  
SCTY. John Muroff W3SAI  
TREAS. Robert M. Lachman W3OEC

### MEETINGS

First Monday of the month, at TOWN HALL  
Germantown Ave & Haines St Phila @ 2000

### NETS & NET FREQUENCIES

Ch 1 - 29493 Kcs. Ch 3 - 27000 Kcs.  
Ch 2 - 29626 Kcs. Ch 4 - 50.7 Mcs.  
Scrambled-Egg Net, Weekdays, 0730-0830  
Ten on Ten Net, Sundays, 1000-1100  
Blarney Sessions, Anytime, Ch 1 or 2  
29493 Kcs. is monitored daily, 0830-2400  
for the benefit of mobiles in Phila. area and for all.

## THE LATEST SCOOP:

We reported that W3SAR received some SWL mail in the form of ARRL reports last month for having second harmonics but it was a case of miscalibration instead with the new rig lashup. Carl has a folded dipole to go with and brags his CW operation. Sing him up for Field Day fellows. W3AJ0 is chairman this year and will have a meeting of the committee at his QTH to get the ducks lined up. A report on the plan of action will be mailed. --- W3LEJ/F 18- silent - reports Stations that are heard in Vietnam (Saigon) on 29.493 (or near that frequency) W3IW in contact with W3QQH but couldn't hear Jim also W3QV/m - take a bow Brad the only mobile ever hear here in contact with W3CNO & another Q1/S2 signal unidentified (it sounded like W3PKY) (Editorial license taken here) "Darn few band openings in this direction - regards to all" Jonsey. --- Noted from the Reading Radio Club News "Nice to have Jay Gaul W3IM, of the FARC drop into the shop the other day. Boy, there's a guy who really enjoys mobile operation. Look for his covers on the "Blurb" at the meetings --- Which brings a case to point - there has been several comments from the crew to have us get more pictures into the Blurb as front-pieces. We, at one time, wanted to have a picture of some prominent club activity on the front cover about every 3 months but the wagon broke down - what is needed is the work to go into getting it all lined up. Should be - we ought to have a regular committee set up to see to it that we get 4 pictures per year as an activity toward Blurb Improvement. Of course, we don't have to limit ourselves to that few a year either, but it does take someone who will take the responsibility to see to it that the project is followed... maybe we can work on some of the club Photogs to further this project. --- Note the definite pickup in Swap & Shop since the new policy was instituted ---

On Sunday, April 20, 1958, we had a unique event in Philadelphia, USO-Armed Forces Religious Emphasis Day, in which some sixty churches and synagogues participated by being hosts to more than 6000 servicemen of the area.

The United States Army Pictorial service envisioned a likely subject for their "Big Picture". Seven cameramen with sound technicians were sent from their headquarters in New York to capture the event on film.

Many people and agencies were asked to help make it as big as a success as possible. The Philadelphia Civil Defense Council was asked to provide mobile communications so that the director of the movies might have the flexibility of instantaneous radio control over his cameramen. He would roam about the City looking for human interest subject matter.

A mobile was assigned (IVD) to him as well as his cameramen. As soon as he would find something he would dispatch a unit, or as soon as a unit had completed an assignment they would check in for further orders. It all moved very well and fast which is what he wanted, having so little time and it being a one-shot affair.

This wasn't a Civil Defense alert or drill as such. It was good practice, however, with a real, honest-to-goodness situation, rather than a hypothetical, "paper" drill we usually get. After it was all over, all the participants, real or promised, were invited to Convention Hall for the lunch and the show.

The first mobile unit (LKI) checked in at 0900 hours and the last (GIF) checked out at 1815 hours. Some were very busy, some were not so busy, as would be expected, but everyone said they had an interesting time of it.

Inasmuch as most of the mobile units on 10 meters were from the Phil-Mont Radio Club, their channel 2, 29.624 Mcs, was used until the afternoon when they held their transmitter hunt on that frequency. We then shifted to their channel 1, 29.493 MCs for the duration of the hunt. After which channel 2 was again used until the end. The following mobiles either worked or stood by in readiness: W3's AAU, APD, DSG, FLP, GIF, HAS, IVD, LKI, SAA. W3TQU was NCS.

Inasmuch as all the mobiles on 6 meters were from the Mobile Sixers Radio Club, their channel 1 50.55 Mcs (shh, Nat'l calling Freq.) was used. The following mobiles on 6 meters were K3APK, K3BGT, W3DJV, K2FZW, K2QMO, W3ZIE.

Besides the assignments with the cameramen, there was some information relayed from the Navy Yard where the buses were regrouping before being dispatched to their assigned church or synagogue.

W3IW reports he now has a new phone patch for the exclusive use of the PMRC crew --- Bill W3QFY called ED via Demon - SSB and phone patch the other nite and let it be known that it is a hot mode of operation - voice break in and all. W2ZAS has a new 6N2 rig with a MC300 and converter and is busy on 6 and 2 meters with a Kresco commercial ground plane. He will be pleased to work on channel #4 with anyone - he has 100 watts to burn --- W3PKY will be on 6 with a gonset and Kresco s on --- The local Division 7 (CD) (Radiation) people recently won a session to obtain 53.7 as a Delaware County CD frequency for the use of radiation people exclusively. A considerable step forward to better CD operation - comes fallout. Four stations are now being planned in Springfield township with two more in Haverford. The balance of the Delaware County communities are expected to take the lead of Dr. Illif of Springfield and join the system for charting of fallout over a wide area. It appears as if other counties in Eastern Pa are also going to take the lead. --- May 1st last, W3LKI, W3VXN, W3NIR and W3UMK participated in a CD demonstration on 2 meters for the municipality located in Penn Valley in which W3DSG and W3SGR reside (ED's note - for shame - outsiders coming in to run the show) --- W3UWL - bless the old Walrus (known as ole thick skin himself) blunted a few carving knives of some witch doctor in center city and is now back on the microphone noisy as ever - good to hear you again Russ. --- W3VVS shed a few tears at last meeting over the passing of all but a slot of 160 but that 'aint' all - about a week after that choice gem, another came out taking away a slight bit more, in fact about 40,000 times as much - We bow to a discussion by W3NL on the subject who has a better slant on the situation.

HERE WE GO AGAIN - THE AMATEUR IS LOSING 2000 Megacycles!! We've just lost 50 KC in the 160 meter band, but-----read on!

Well, we've just lost half of 160 meters. Only 25 kc remains in any one area. This was foreshadowed at Atlantic City in 1947 when it was provided that Loran, which used these frequencies during the War, should continue in the 160 meter band at the sufferance of the amateur. Now that this "evolution" is taking place, we hope for two things: 1) that any letters of protest be directed to the Coast Guard and not to the FCC (who didn't have anything to do with it) and 2) that this action will not serve as a smoke screen for another section of possibly far more reaching effect -- the ultimate loss of over 2000 megacycles of spectrum space via a route similar to the 160 meter affair.

On April 18, 1958, the FCC issued an Order (meaning that it is in effect right now!) allocating all of the amateur bands 220 mc and higher primarily to the radiopositioning service and secondarily to the amateur with the proviso that the amateur shall not cause harmful interference to the radiopositioning service. In 1947 we had Loran on 160 meters; in 1958 we have radiopositioning on all bands 220 mc and higher. We've seen 160 eleven years later; we wonder what will be eleven years later on the last action.

It may be well to review briefly just how an order of the FCC can be made effective without prior warning, without an opportunity for any hearing or any defense, and in effect on the day of issuance. The Administrative Procedures Act requires the FCC to proceed in a rather orderly fashion - give notice provide hearings, permit defense, etc, on all actions, except for certain things. In this case the ORDER closes with a statement that in view of the representations made, that sufficient cause was shown for waiver of these rules of procedure and that the order would therefore be effective without further ado. These waivers were based upon representations of the Office of Defense Mobilization (ODM) that these frequencies were required now and forthwith; that they were needed in the furtherance of defense plans, etc. etc. (and that even though contained in proposals for the forthcoming Conference that they couldn't wait for that). So on the basis of these statements, the FCC issues the order, the FCC waives all hearings, and presto, there's a big change in the amateur frequency allocations. Now just who is ODM? In these pages we've often "revealed" that there are two "FCC's" (as the amateur mostly visualizes the regulatory) --one for non-governmental frequencies (the FCC) and the other for government frequencies. The latter by the Communications Act of 1934, is the President, who has delegated this authority to the Office of Defense Mobilization which in turn operates through the medium of the Inter-departmental Radio Advisory Committee which is composed of representatives of all Govern-

ment agencies dealing with frequencies. The last is referred to as IRAC, so we have two regulatory bodies, the FCC and IRAC. ODM is thus in the Executive Office of the President and it was established to enable the Executive Office to exercise strong leadership in our national mobilization effort including both current defense activities and readiness for any future emergency. It is a policy planning and coordinating agency. The organization calls for an Assistant Director for Tele-communications and it should be noted that a description of the duties ends, "The functions of this position are not restricted to mobilization but are of a continuing nature during normal as well as abnormal conditions." We leave it up to you as to whether ODM has the authority to accomplish such a change in the amateur regulations.

Now it will be interesting to note just what happens and what action if any will be taken by the League. Will the League question whether all of these frequencies are needed all at once and immediately? It should be borne in mind that RACES were guaranteed the use of 220 mc even after a war started, even though regular amateur operation would cease. But in each and every case the amateur, including RACES, shall not cause harmful interference to the radiopositioning service. Will the Directors be told that everything is well in hand, that the League knows what's going on; that there is nothing to worry about - everything is in good hands!! Will everything wait until the May meeting? Some of us in Washington who know what is going on in our home town will be interested in the answers.

-----  
THE FOLLOWING IS A PORTION OF THE MEMORANDUM OPINION AND ORDER REFERRED TO ABOVE: (only those parts referring to amateur operation are included)

1. The Commission has before it for consideration the reallocation of the frequency bands indicated below:  
(a) the reallocation of the exclusive amateur bands above 220 Mc to Government services on an exclusive basis in one instance, and the Government services and the amateur service on a shared basis in the other instance.

(b, c, d, e, f, and g not reproduced here)  
2. The Office of Defense Mobilization has made representations that the reallocations set forth above are required either because of vital national defense considerations or are desirable changes incident thereto. The reallocation of frequency bands for Government use are stated to be essential to fill radiopositioning requirements, which have increased significantly in recent years due to the international political climate and the advent of the "space age". It is further stated that vital national defense considerations make it mandatory that provisions be made now in the allocation table for these requirements, some of which must be satisfied immediately and others which must be satisfied in the near future.

3. Moreover, the Office of Defense Mobilization has represented that the requirements in question cannot be accommodated in frequency bands presently allocated for Government use. Based on the above representations, it appears that if these vital national defense needs are to be satisfied, sound frequency management requires that the designation in the Table of Allocations in Part 2 of the Commission's Rules must be changed at this time to make available for use by Government services the bands shown. Similarly, in the interest of making available to non-Government users as quickly as practicable those bands now designated as exclusive Government bands or bands which are now shared with non-Government stations, but which are henceforth to be designated as exclusive non-Government bands in partial compensation for the loss of other non-Government bands, the Table of Allocations in Part 2 should also be amended now.-----4, 5, 6, and 7 are omitted here.

8. Because of the urgency and nature of the Government requirements and the vital national defense considerations involved herein the Commission finds that it is impracticable and contrary to the public interest to comply with the Public Notice requirements of Section 4 of the Administrative Procedures Act, and that, for the same reasons, the amendments ordered herein should be made effective immediately.

We skip all the rest and include Appendix

1 portions: " It should be noted that in all bands between 220 Mc and 10500 Mc designated herein for amateur use, the U.S. proposal to the ITU Radio Conference would permit amateur operation on the condition that the amateur service cause no harmful interference to the radiopositioning service, which in each case would be operated by the U.S. Government within the U.S., its territories and possessions."

What is radiopositioning? The determination of position or direction by means of the constant velocity or rectilinear propagation properties of Hertzian waves for purposes other than the navigation of ships or aircraft, or other than warning of obstructions to navigation.

In Part 12 of the Amateur Regulations, changes are made to delete 3300-3500 from the amateur service and add 3500 - 3700 on the shared basis mentioned. In addition, after each paragraph on the use of a particular frequency in this range, add the following sentence: "In the band, the amateur service shall not cause harmful interference to the government radiopositioning service."

12.231 of the Amateur Regs is amended as follows: (c) Except as provided in paragraph (d) of this section, at such time as any or all of these frequency bands are withdrawn from availability to stations operating in the Amateur Radio Service, such bands shall be jointly available to stations in the Radio Amateur Civil Emergency Service and to stations in the military services for training and tactical operations. At that time, in areas where interference might occur local mutual arrangements shall be made regarding times of operation such as to preclude or satisfactorily alleviate interference. In time of actual civil defense emergency, stations in the Radio Amateur Civil Emergency Service shall have absolute priority.

New paragraph (d) In the band 220 to 225 Mc, stations operating in the Radio Amateur Civil Emergency Service shall not at any time cause harmful interference to the government radiopositioning service.

W3SOB gave us this one at the last meeting:

May 1, 1958

Dear Sir:

This is in reply to your inquiry concerning the symbol "O" as appears in your 1958 registration plate.

The registration plate you now have is valid 1958 registration plate and the symbol "O" as appears on the registration plate corresponds with the symbol "O" on your registration card.

The size in height of the symbol "O" is immaterial in determining whether that symbol is a letter or a numeral.

The Commonwealth of Pennsylvania on its design of passenger registration plates for the year 1958 made only one size of the symbol "O" which represents both the letter "O" and the numeral "0".

Thank you for your interest in this matter.

Very truly yours,  
Charles M. Dougherty  
Director of Motor Vehicles  
Commonwealth of Pennsylvania

The following article was in the Postal Bulletin Published weekly by the Post Office Dept. Thurs May 8, 1958 issue:-It is obvious that as more organizations lean on us the better our story will be heard. We wonder what reaction Mr. Summerfield would have if he received a couple of hundred letters commenting on his action and asking that he get word of favor into the powers of B controlling the frequency subdivisions-Read on. All Postal Employees

#### Amateur Radio Operators

As you all know, during a period of emergency there is a shortage of communications facilities. Adequate communications are necessary for insuring that the American public receives prompt and proper mail service. It is our feeling that amateur radio operators can do a great service to the Post Office Department and our country in such emergent situations. We are interested in exploring this



source to learn of its potential capability.

We appeal to all postal employees who are amateur radio operators and who can participate on a voluntary basis, to answer this call for assistance. You will be performing a worthwhile service by doing so.

On page two of this bulletin is a questionnaire containing the minimum requirements needed to plan this program. Each interested person should complete the questionnaire on or before May 31, 1958 and give it to his postmaster who will forward all questionnaires received to the Communications Officer, Division of Real Estate, Bureau of Facilities, Washington 25, D.C., not later than June 4, 1958.

I urge every postal employee who can volunteer his services to do so. The postal establishment would be indeed grateful for your participation.

Arthur E. Summerfield  
Postmaster General

Many thanks are in order to W2NSD for his talk and movies at the last program. It takes a bachelor and an editor to get into deals like the DXpedition he was on. Did we see a note in CQ that the report of the trip would be made in QST????? That is a turn about. Believe it or not, neither ED nor W3VXN received the usual compensation for the Article on movies that we wrote. ED didn't remind Wayne by letter that we did not. Since ED is being charged with embezzlement of funds - we had better make the effort to get the funds to embezzle and then plunk them in the club treasury...--A short report on the Midway picnic..We were completely outnumbered this year the FMRC gang had only 10 hams present and the W3RC had 31. We had well over 100 all told at the Havre de Grace park with a perfect day--Sunny, warm, lots of boats in the channel and bay, a whole pack of lies, a good bingo game with prizes for all the gals. The FMRC wives made off with at least 1 prize each. It is the best location we have found to date for picnics...It takes 1 1/2 hours to get ther but we haven't been to one yet that took less so there is no reason to complain about traveling. The turnout at these shindigs depends on which side of town you live on. An even better spot might be Elk Neck State Park with excellent swimming facilities available. ---Some of the gang had a bridge game the other night and Mrs. CUB was presented with a new sack (gunny sack) dress complete with a big bow. Uncle Bill was in his usual form.---W3VSU managed to hide the rig at the rig hunt in a good location out near Springfield - Media Area. W3CCB followed the verbal instructions to the place and arrived with a couple of others. There were several cancellations at the last minute so not many showed up. The boys cased all the eating places in the area looking for Lyle knowing his affinity for food but it didn't work this time!!!

Haywire Sam drew aros with finger,  
and full gallon on, did frisk--  
Now wasn't he a foolish ham,  
his silly \*

Anon

Dear Bob, (W3CEC)

Having found myself unable to be very active in FMRC because of working hours and other activities, I think it would be best to give up my full membership to someone on the waiting list who could do much more for the furtherance of the clubs purpose.

However, I would, if possible, like to continue an associate membership with FMRC.

Please let me know the amount of dues for this and I will immediately send you the specified amount.

Thanking you for your kind attention, I am

Sincerely yours,  
John J. Hallowell  
W3PQV

Official Bulletin NR 652 from ARRL Headquarters

West Hartford Conn May 1 1958 To All Radio Amateurs BT

All Amateurs located in ARRL field organization territory, individuals as well as club groups, are invited to participate in the annual ARRL Field Day June 28 and 29. Take advantage of this fourth June week end by testing out batteries and generators. Make any modifications necessary to insure full readiness and dependability. Convenient log forms are now available on request from ARRL. Complete rules on the 1958 Field Day will appear in June QST AR

Official Bulletin NR 651 from ARRL Headquarters

West Hartford Conn April 24 1958 to all radio amateurs BT

Because of national defense considerations, an FCC order now in effect provides priority for government radiopositioning service in all amateur bands above 220 Mc and also moves the 3300 to 3500 megacycles band to new location of 3500 to 3700 megacycles. No practical effects on normal amateur UHF operation are expected. FCC and IRAC have jointly announced government views on frequency allocation for the forthcoming world radio conference which provide for continuance of every present amateur frequency assignment, including the aforementioned rearrangement and permissive shared use of Loran and the 27 Mc ISM bands. Details in June QST AR

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New Member: W3GGP - Herb Smith lives in Devon, Pa and works for ERNST and ERNST as an Industrial Engineer. He is mobile with 50 watts and has a home rig with 150 watts on all bands.

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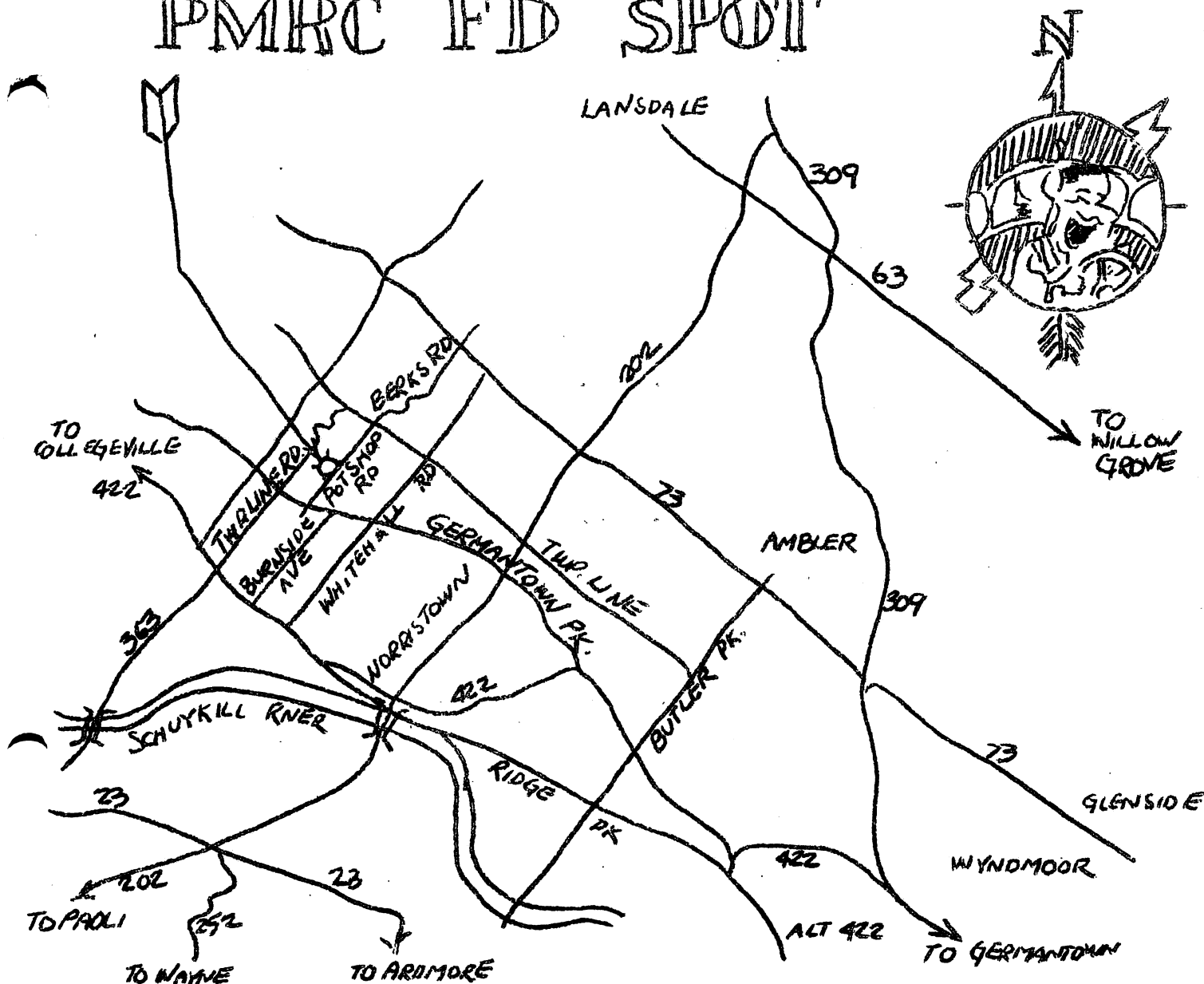
#### SWAP AND SHOP

For Sale:

Telrex 10 meter beam, two-over-two conical, \$ 25.00  
W2EAY Phone: Ha9-0087 or write P.O. Box 305,  
Haddonfield, N.J.



# PMRC FD SPOT



## SAMPLE FIELD DAY MESSAGE

NUMBER 1 (Send only one)

FROM \_\_\_\_\_ (Your call)

CHECK \_\_\_\_\_ (Number of words in message TEXT)

PLACE OF ORIGIN \_\_\_\_\_ (Geographical location)

TIME \_\_\_\_\_ D.S.T.

DATE \_\_\_\_\_ (Either June 28, 1958 or June 29, 1958)

To Richard B. Mesirov, W3JNQ 1372 W. Indian Creek Drive, Philadelphia, Pa.

TEXT: THIS MOBILE FIELD DAY STATION IS OPERATING AT \_\_\_\_\_ (location)

WITH \_\_\_\_\_ (Number) OPERATORS ASSISTING ME. THERE ARE/IS \_\_\_\_\_ (Number)

AREC MEMBERS AT THIS STATION.

SIGNATURE \_\_\_\_\_ (Name and call)

PHIL-MONT MOBILE RADIO CLUB

FIELD DAY ..... JUNE 28 -- 29

Here is the latest information regarding Phil-Mont's Field Day participation. Save this sheet - whether you operate mobile or at the official location, or both.

These are the pertinent details:

WHO?

All Phil-Mont members. Just be sure to have your license with you.

WHEN?

Saturday, June 28, and Sunday, June 29. The operating starting time is 5:00 p.m. daylight time and for 24 hours solid. We need help before and after too!

WHERE?

See the map on the reverse side for the Field Day location - and mobile, anywhere!

OBJECT?

Work as many different stations as possible.

WHAT BANDS?

The Field Day location will operate on 80, 75, 40, 20, 10 and 2 meters. 80, 75, 40 and 20 will operate under 100 watts; 10 and 2 under 30 watts. Phone and CW operation. Mobile operation is up to you - work any and all bands you can - no cross bands!

HOW?

Just call or answer and "CQ FD"; exchange reports and give our ARRL section "Eastern Penna". and record his -with accurate, legible logs!

FIELD DAY MESSAGE:

Send one Field Day message (use the form on the back) to any station who will accept and relay it - it counts the same as working 25 stations. Phil-Mont fixed or mobile stations will be glad to accept these messages. Keep a copy to attach to your log.

SCORING

One point for each contact on each band. CW and phone contacts count separately. 25 points for originating one Field Day message, 1 point for receipt, 1 point for radio relay. (no errors) Multipliers: 3 x score for less than 30 watts, 3 x score for emergency power, 1.5 x score for battery operation - that makes 13.5 x score for a battery powered mobile under 30 watts! If your mobile won't work under 30 watts, the multiplier is 2 for under 100 watts.

CLUB-AGGREGATE MOBILE:

All individual members' mobile scores are added together!! Submit copies of your logs and messages to W3AJ0 - a prize to the high-scoring member!

PREPARATIONS:

The committee will take care of most items. such as antennas, equipment, tents, put-put, food, but we need strong backs, your operating time and your mobile support. Sign up when the roster is passed! Volunteer your equipment, suggestions, set-up or knockdown labor to any of the committee: W3AJ0, Chairman W3QZ0, W3NIP, W3QCH, W3UWL, W3DJV.

D O N " T M I S S T H E F U N ! ! ! ! !

MEMBER  
PHIL - MONT  
MOBILE RADIO CLUB

A \_\_\_\_\_

A3

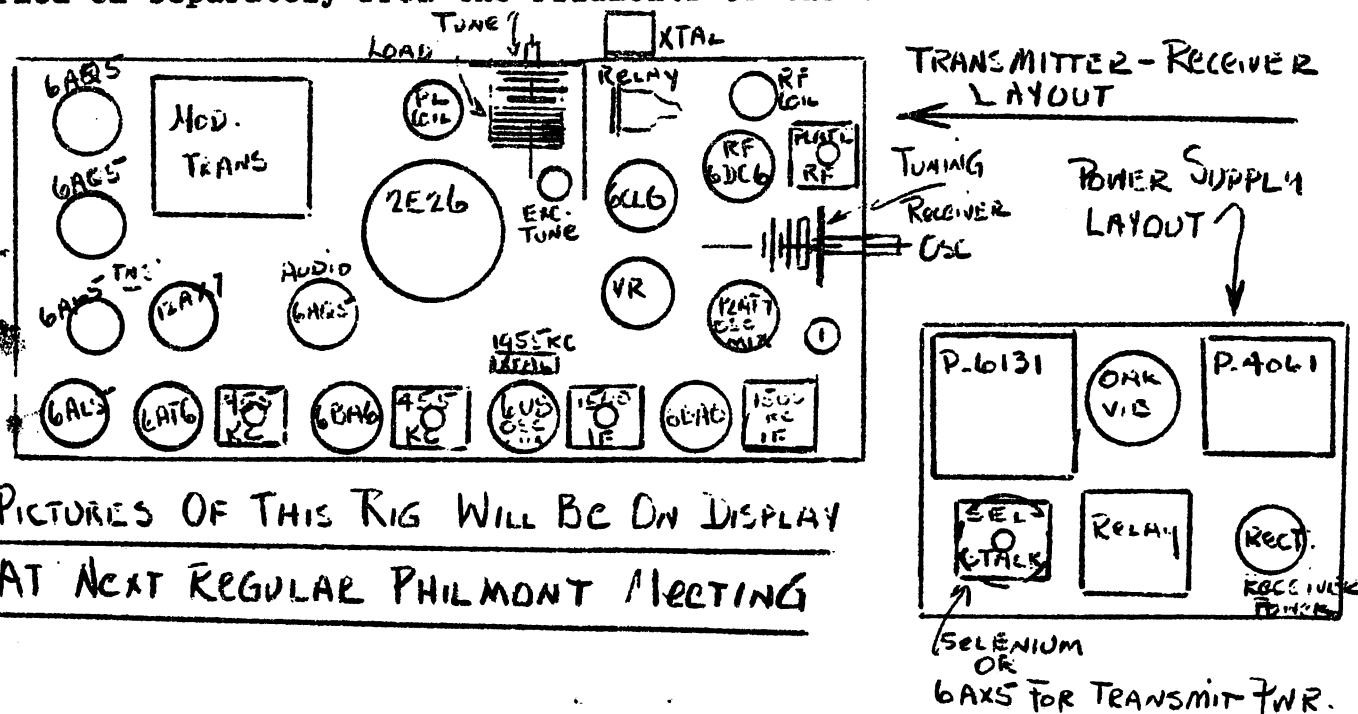
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The Philmonter (W3QV) A single band (28-30MGS) Mobile Radio Trans.-Receiver.

The following description of the Philmonter is presented as an idea, rather than as a construction article. It is a single band transmitter and receiver. The transmitter is operated at approximately 20-25 watts input, plate AM modulated, and the receiver is a double conversion arrangement of good stability and sensitivity, with noise limiter and squelch. It is a combination of straight forward, commonly used circuits. The package is the idea, with the elimination of outboard attachments, control heads, with their various extra cables etc. The HOT battery lead, the antenna lead & the speaker lead are the only wires that require routing through the car. The unit is readily removed from the car for use at home, for portable or field day. The transmitter is capable of nearly twice the input, if used with a larger power supply. The power supply was designed with the idea that it should not require other than the normal car battery and generator for normal daily use. This unit is designed for 6 volts.

The power supply uses two vibrator transformers. One is rated at 250 volts - 50 mills and the other at 330 volts - 100 mills. The vibrator is of the split reed type (OAK) used as two vibrators, one for each transformer. The smaller power transformer runs continuously, furnishing the receiver's requirements. When on transmit it furnishes power to the 6CL6 oscillator and the screens of the 6AQ5 modulators. The larger transformer is used on transmit only, the primary is cut in by relay in the power unit, it supplies the plates of the modulators and the screen and plate of the 2E26. The current required and used is in excess of 100 mills; however, the duty cycle is of short duration. The DPDT relay in the power supply is operated by the mike switch. In addition to connecting the battery to the larger transformer on transmit, the other pole of the relay switches the low voltage from the receiver to the transmitter, automatically muting the receiver. Used in this manner, the functions required in shifting from transmit to receive are accomplished with a minimum of relays and contacts required.

The package size of the Transmitter - Receiver is 9 1/2 inches x 5 inches x 5 1/2 inches. The package size of the power supply is 7 inches x 5 inches x 5 1/2 inches. The filaments of the tubes in the transmitter are turned on separately from the filaments of the tubes in the receiver.



PICTURES OF THIS RIG WILL BE ON DISPLAY  
 AT NEXT REGULAR PHILMONT MEETING

**"THE BLURB"**

A Phil-Mont Mobile Radio  
Club Publication

**FIRST CLASS MAIL**

2242 Cambridge Road. Broomall, Pa.